

Section V-G

Antenna and Site Information

Name of Applicant

Call Sign

Station Location

Central Florida Educational Foundation Union Park, Florida

Purpose of Application (Put "X" in appropriate box)

- ☒ New antenna construction
☐ Alteration of existing antenna structure
☐ Change in location

Facilities Requested

1.9 KW. FM facility on Channel 202C2
(88.3 MHz.)

1. Location of Antenna:

State

County

City or Town

Florida

Orange

Bithlo

Exact antenna location (*street address*). If outside city limits, give name of nearest town and distance and direction of antenna from town.

.45 miles North of State Route 420 at Lake Pickett (Bithlo Tower)

Geographical coordinates (*to nearest second*). For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude 28° 36' 08" West Longitude 81° 05' 37"

2. Is the proposed site the same transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission?

☒ YES ☐ NO

If Yes, give call sign: WCPX-TV Ch. 6

3. Has the FAA been notified of proposed construction?
 If Yes, give date and office where notice was filed.

☐ YES ☒ NO

4. List all landing areas within 5 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site.

Landing Area	Distance	Direction
(a) NONE		
(b)		
(c)		

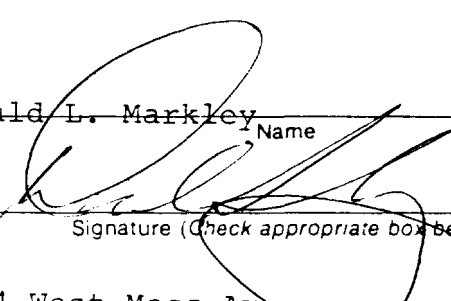
5. Attach as Exhibit No. _____ a description of the antenna system, including whether tower(s) are self-supporting or guyed. If a directional antenna, give spacing and orientation of towers.

Tower		#1	#2	#3	#4	#5	#6
Overall height above ground (include obstruction lighting)	meters	470.3					
	feet	1543					
Overall height above mean sea level (include obstruction lighting)	meters	490.1					
	feet	1608					

6. Attach as Exhibit No. E-8 a vertical plan sketch for the proposed total structure (including supporting building, if any) giving heights above ground in feet and meters for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Donald L. Markley Name


Signature (Check appropriate box below)

2104 West Moss Avenue
Address (include ZIP Code)

Peoria, Illinois 61604

(309) 673-7511
Telephone No. (Include Area Code)

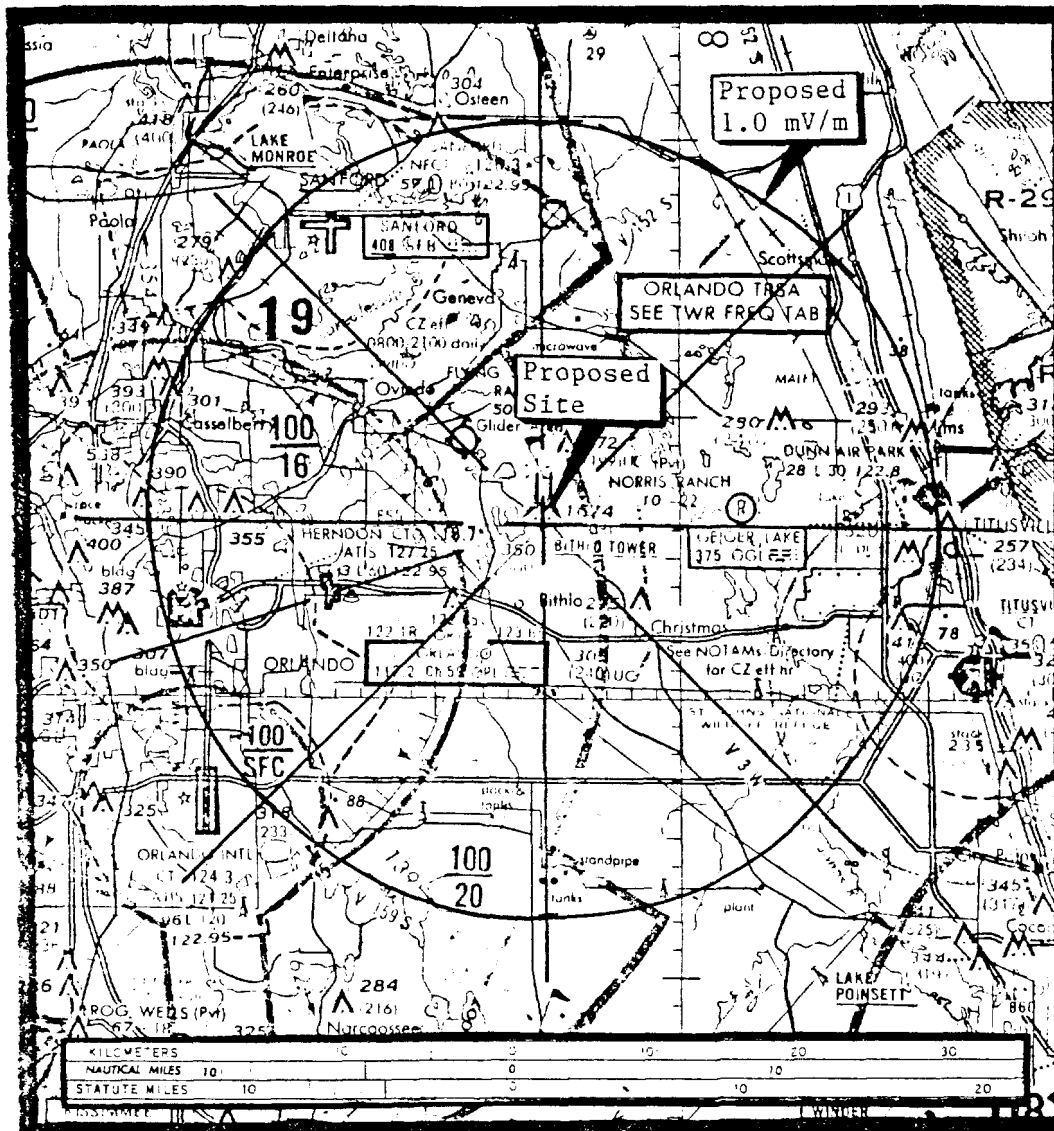
☐ Technical Director

☒ Registered Professional Engineer

☐ Other (specify)

☒ Technical Consultant

☐ Chief Operator



1.0 mV/m

Area

2107.5 km²

Population

229,491 persons

Exhibit No: E-1

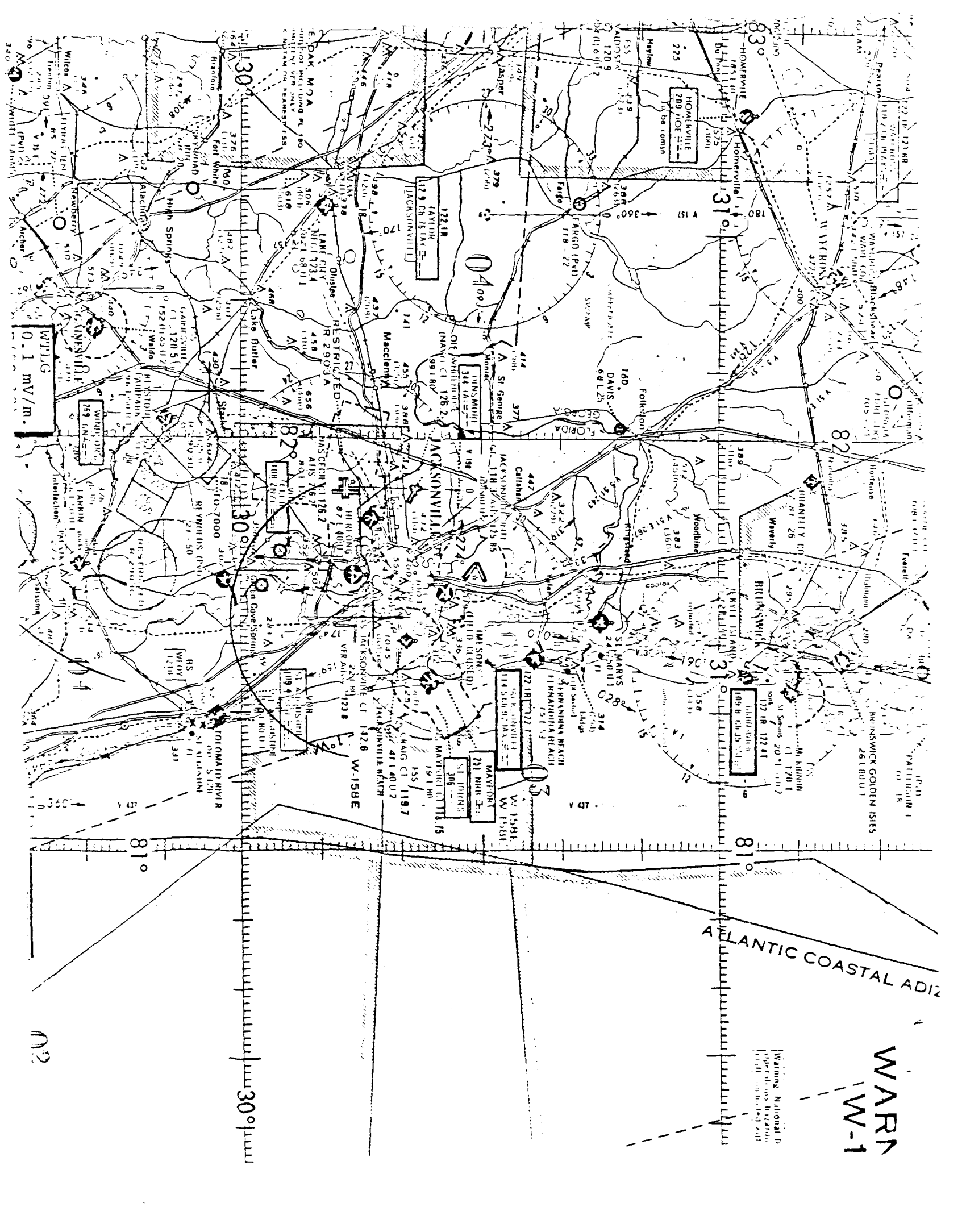
Title: PROPOSED 1.0 mV/m. CONTOUR

City: UNION PARK, FLORIDA

Applicant: CENTRAL FLORIDA
EDUCATIONAL FOUNDATION

Date: OCTOBER, 1987

D. L. Markley & Associates, Inc.



WARR
W-1

Warning National D
Operations Division
1000 1000 1000 1000

ATLANTIC COASTAL ADIZ

0.1 MV/M

0.2

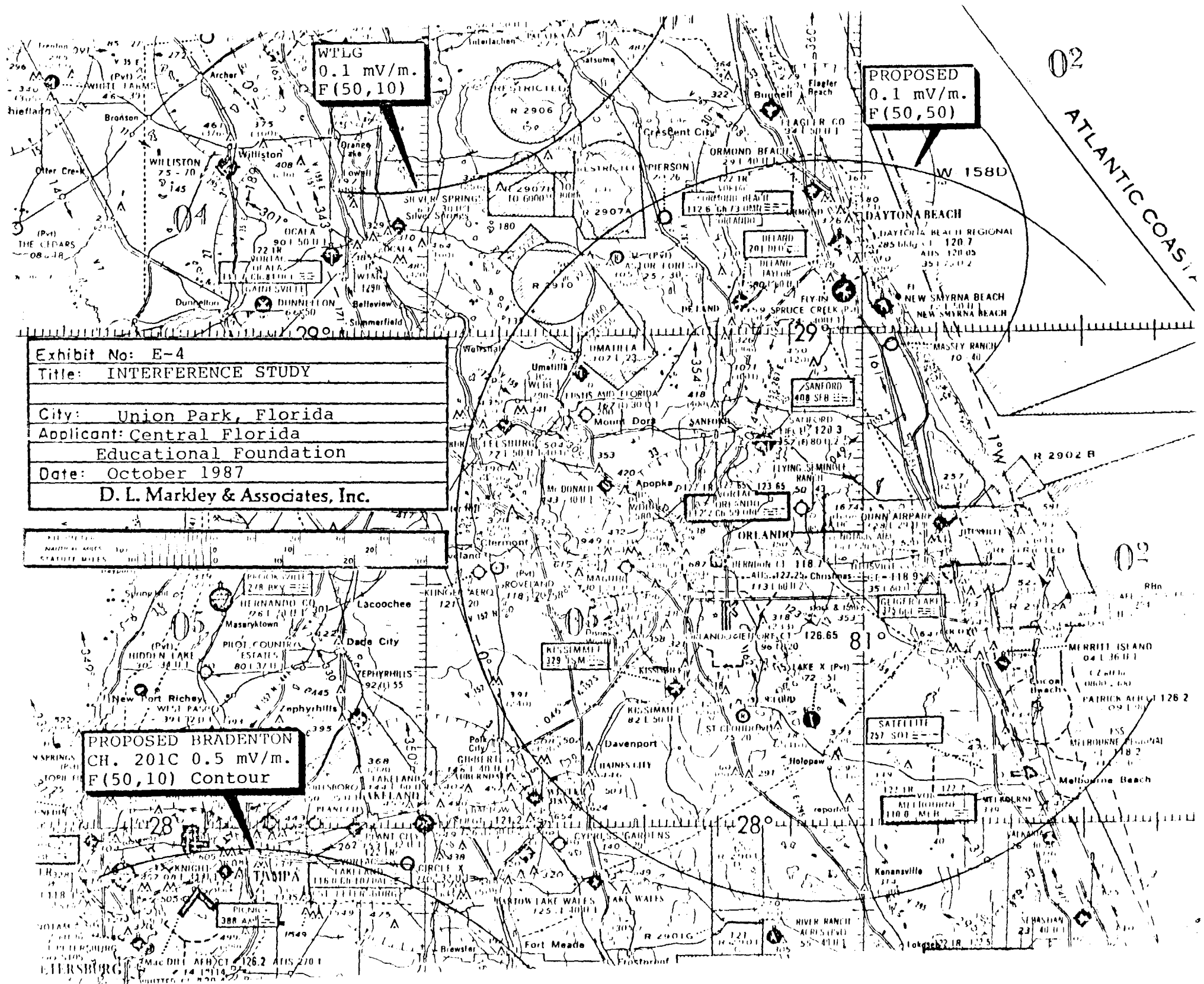


EXHIBIT E-3

FM AND TV STATIONS IN VICINITY
OF THE PROPOSED STRUCTURE

The proposed facility will share a tower with Television Station WCPX(TV). Also mounted on that tower are the following stations:

WCPX(TV)	Channel 6
WFTV(TV)	Channel 9
WMFE-TV	Channel 24
WMFE-FM	Channel 214C1
WDIZ(FM)	Channel 262C1

In addition, numerous other stations are located in the same general area. These stations with the distances from the proposed site are as follows:

WOFL(TV)	Channel 35	0.44 miles
WBJW-FM	Channel 286C	0.44 miles
WRBW(TV)	Channel 65	1.84 miles
WSTF(FM)	Channel 266C	1.84 miles
WSSP(FM)	Channel 281C	1.84 miles
WHOO-FM	Channel 243C	1.84 miles

It is respectfully submitted that the inclusion of a low effective radiated power station such as that proposed will not have any significant impact upon spurious signals or receiver overload in the area. If the proposed facility does cause any such spurious radiation to occur, it will be eliminated in the normal fashion by use of traps and/or filters. Spectrum analysis measurements will be performed when the transmitter of the proposed facility is operating and when it is off-the-air to determine if any new

- 2 -

signals are generated by the proposed station. If such is the case, the applicant understands that it is their responsibility to eliminate any such problems.

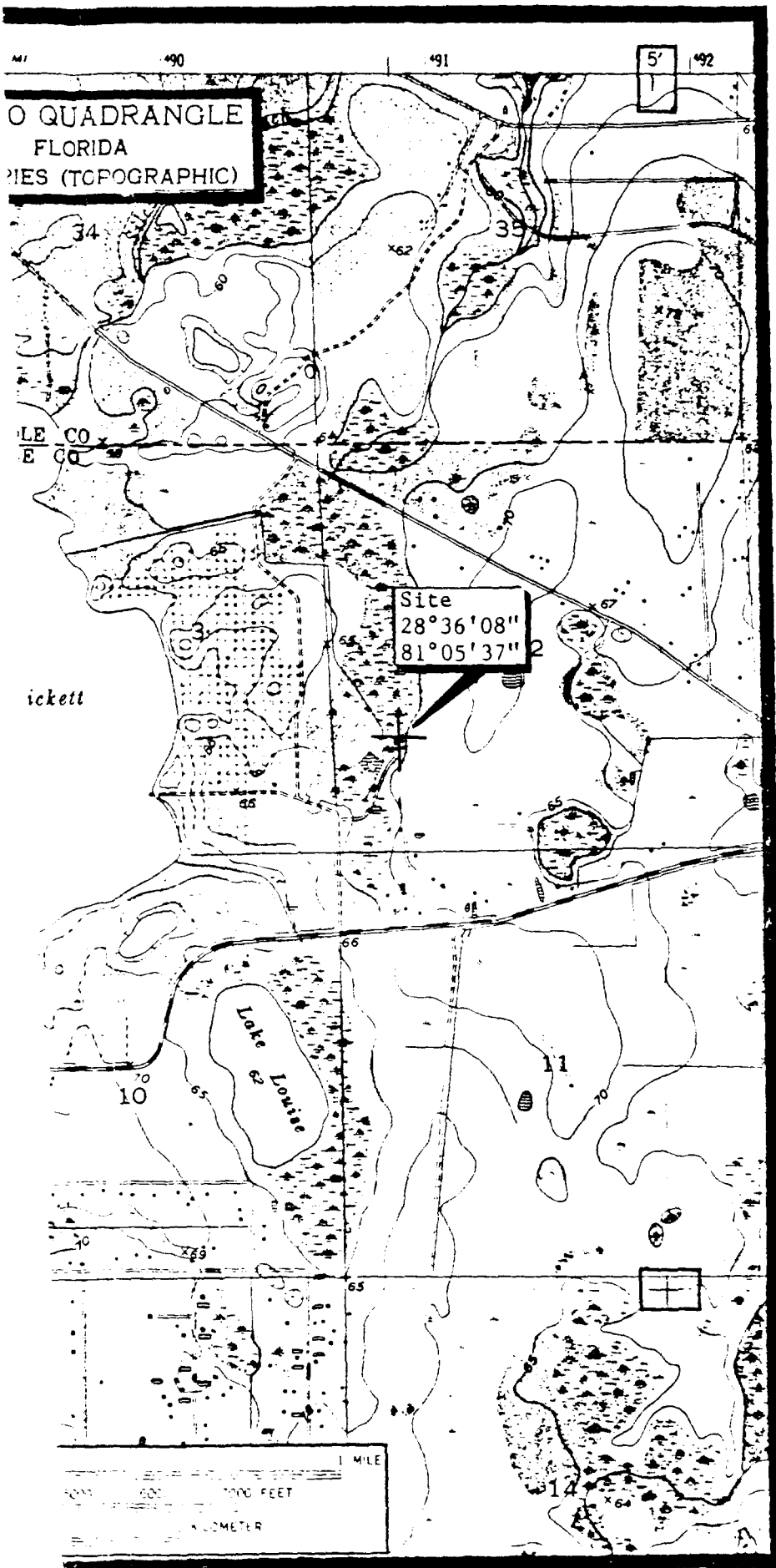


Exhibit No:	E-2
Title:	TOPOGRAPHIC SITE LOCATION
City:	UNION PARK, FLORIDA
Applicant:	CENTRAL FLORIDA EDUCATIONAL FOUNDATION
Date:	OCTOBER , 1987
	D. L. Markiey & Associates, Inc.

81°07'30"
28°37'30"

1880000m E

CHULUOTA 1.5 MI

BITHLO QUADRA
FLORIDA
7.5 SERIES (TCPOGR)

3166000m N

3165

T. 21 S.

T. 22 S.

SEMINOLE CO
ORANGE CO

Lake Pickett

55

OVIEDO 8 MI.
CHULUOTA 28 MI.

3163

3162

35'

4 50

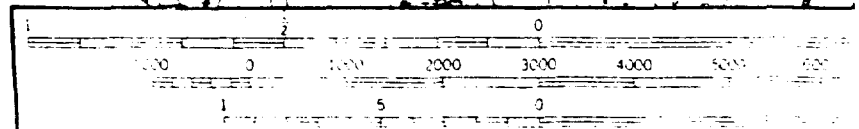


EXHIBIT E-5

INTERMEDIATE FREQUENCY INTERFERENCE STUDY

The FM spectrum was checked for stations on Channels 255 and 256 where interference might be caused due to intermediate frequency differences between the stations. It was found that a Docket 80-90 allocation had been made to Orlando, Florida on Channel 255 and that multiple applications exist for a facility to utilize that frequency. The minimum spacing from the proposed station to a Channel 255 facility would be 16 kilometers based upon the proposed facility classified as a Class C2. The distance to the Docket 80-90 allocation and all stations requesting that facility is greater than the required distance.

EXHIBIT E-6

The proposed facility will be co-located with WCPX(TV) operating on Channel 6. This facility has been designed in cooperation with the Director of Engineering of WCPX(TV). It is through the cooperation of that office that antenna space was found on their tower.

It is proposed that a two-bay antenna will be utilized for the proposed facility. The vertical pattern of that antenna will not be the same as the vertical pattern of the WCPX(TV) antenna. However, the space which is available on the tower is too limited for a larger number of bays which would be required to match the two antennas themselves.

Any interference to Channel 6 which might result in the immediate vicinity of the tower due to the different vertical radiation factors of the antennas involved will be eliminated by the applicant. This will be done in the normal fashion utilizing filters or traps to eliminate the FM signal. It should be noted that the antenna is well away from heavily populated areas and is primarily surrounded by farm ground. A few areas of housing are within a few miles of the tower but this could not be classified as a heavily populated area. It is respectfully requested that the requirement for absolute pattern matching of the antennas be waived.

- 2 -

It should be emphasized that this application would not be possible without the cooperation of WCPX(TV). The Director of Engineering of that station is working closely with the applicant and it is not anticipated by either party that any interference problems will result from the proposed facility that cannot be eliminated through further cooperation of the parties involved.

EXHIBIT E-7

BLANKETING INTERFERENCE

The proposed facility is located in an antenna farm where numerous broadcast stations operate at the present time (See Exhibit E-3). It is not anticipated that any blanketing interference will result from the addition of the proposed relative power FM facility. If any such interference does occur, the applicant understands that it is their responsibility to eliminate that interference in accordance with the Commission's Rules and Regulations and the applicant agrees to do so.

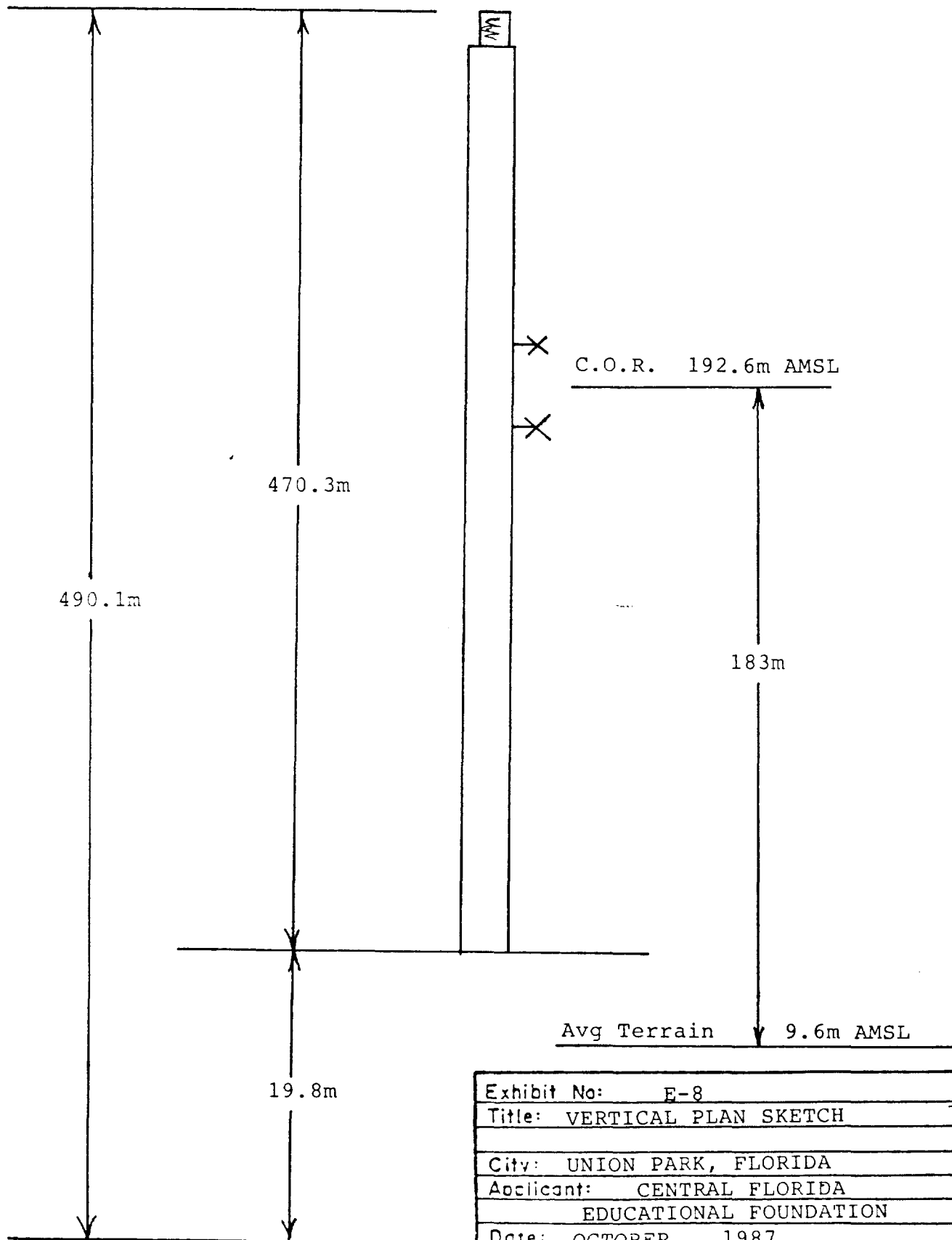


Exhibit No:	E-8
Title:	VERTICAL PLAN SKETCH
City:	UNION PARK, FLORIDA
Applicant:	CENTRAL FLORIDA EDUCATIONAL FOUNDATION
Date:	OCTOBER , 1987
D. L. Markley & Associates, Inc.	

The Orlando Sentinel

Published Daily
Orlando, Orange County, Florida

ADVERTISING CHARGE \$139.50 PAID

State of Florida } ss.
COUNTY OF ORANGE

Before the undersigned authority personally appeared _____

Sylvia Hazy _____, who on oath says that

she is the Legal Advertising Representative of the Orlando Sentinel, a Daily newspaper published at Orlando, in Orange County, Florida; that the attached copy of advertisement, being a Legal Notice in the matter of

Application by Central Florida Educational

Foundation Inc. in the _____ Court,

was published in said newspaper in the issues of _____
February 15, 16, 20, 21, 1989

Affiant further says that the said Orlando Sentinel is a newspaper published at Orlando, in said Orange County, Florida, and that the said newspaper has heretofore been continuously published in said Orange County, Florida, each Week Day and has been entered as second-class mail matter at the post office in Orlando, in said Orange County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Sylvia Hazy

Sworn to and subscribed before me this 21st day

of February A.D., 19 89

Nancy X. Puglia

NOTARY PUBLIC, State of Florida at Large Notary Public
My Commission Expires May 25, 1991

Bonded by AMERICAN PIONEER CASUALTY INS. CO.

FORM NO. AD-262

LEGAL NOTICE

On December 7, 1988, an application was filed with the Federal Communication Commission by Central Florida Educational Foundation, Inc. for a new noncommercial FM Radio Station construction permit at Union Park, Florida. James S. Hope, Richard A. Rosenberg and Dr. D. Stephen Hollis are Trustees of Central Florida Educational Foundation, Inc.

The Station will be operated on noncommercial Channel 202C2. The facilities sought are a Class "C2" noncommercial FM station operating unlimited hours with power at 1.9 kilowatts. The tower and transmitter will be located .45 miles North of State Route 420 at Lake Pickett (Bithlo Tower) (Latitude 28-36-06, Longitude 81-05-37). The antenna will be 163 meters above average terrain. The offices and studios will be located in Union Park, Florida.

A copy of the application is on file for public inspection at:
8917 Cherrystone Lane
Orlando, Florida 32824
CL-088 Feb. 15, 16, 20, 21, 1989

840417ME
ORIGINAL

RICHARD J. HAYES, JR.

ATTORNEY AT LAW

1359 BLACK MEADOW ROAD
GREENWOOD PLANTATION
SPOTSYLVANIA, VIRGINIA 22553

PRACTICE LIMITED TO MATTERS BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION

RECEIVED

APR 18 1989

FM BRANCH

RECEIVED BY

APR 17 1989

TELEPHONE (703) 972-7941

ADMITTED IN GEORGIA

April 13, 1989

FCC MAIL BRANCH

Ms. Donna R. Searcy, Secretary
The Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

RE: Amendment to Application for New Noncommercial FM Construction Permit
Central Florida Educational Foundation, Inc.
Union Park, Florida (Channel 202C2)
FCC File No. 881207MA

Dear Ms. Searcy:

Transmitted herewith, on behalf of Central Florida Educational Foundation, Inc. is an original and three copies of an amendment to the above referenced application.

This amendment addresses the issue of publication of local notice. Copies of the affidavit of publication and copies of the newspaper "tear-sheets" are also attached.

If there are any questions, please contact the undersigned, directly.

Sincerely,



Richard J. Hayes, Jr.
Counsel to
Central Florida Educational
Foundation, Inc.

RJH:vms

Enclosure

RECEIVED

APR 24 1989

FIA 8-1000000000

Amendment to Application for New Noncommercial FM Construction Permit
Central Florida Educational Foundation, Inc.
Union Park, Florida (Channel 202C2)
FCC File No. 881207


The application of Central Florida Educational Foundation, Inc. is hereby amended to include proof of publication of local notice. Affidavits and "tear-sheets" from the local newspaper are attached.

This amendment is filed for the purpose of complying with the Rules and Regulations of the Commission.

Respectfully submitted,

Central Florida Educational
Foundation, Inc.

BY:



Richard J. Hayes, Jr.
Its Attorney

Dated: April 13, 1989

Richard J. Hayes, Jr.
Attorney at Law
1359 Black Meadow Road
Spotsylvania, Virginia 22553

(703) 972-7941

CFEFI

~~ATLUSCHAB~~

CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.

2607 South Woodland Boulevard, Suite 101

DeLand, Florida 32720-8679

Phone: (904) 736-9397 • FAX: (904) 738-4302

ORIGINAL

MAR 21 2 36 PM '90

AND BY FAX DES

RECEIVED

MAR 20 1990

Federal Communications Commission
Office of the Secretary

March 19, 1990

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
Washington, DC 20554

re: BPED-881207MA
Union Park, FL

Dear Ms. Searcy:

The attached curative amendment is submitted in response to the Commission's letter of January 19, 1990 requesting same (reference 8920-CMJ).

Respectfully submitted,



James Hoge

President
Central Florida Educational Foundation, Inc.

JH/

4/2/90
10:00 AM
10:00 AM

RECEIVED

Glen Clark & Associates

Broadcast Consultants

58 Park Square South • Suite E
Marietta, Georgia 30060-1914

MAR 20 1990

Federal Communications Commission
Office of the Secretary

MAR 21 2 36 PM '90
FCC

March 19, 1990

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
Washington, DC 20554

re: BPED-881207MA
Union Park, FL

Dear Ms. Searcy:

The attached technical materials were prepared on behalf of the Central Florida Educational Foundation, Inc., in support of its application for an educational FM broadcast station at Union Park, Florida. They constitute a curative amendment is in response to the Commission's letter of January 19, 1990 (reference 8920-CMJ).

In that letter, the Commission raised two issues: 1) errors in the determination of distances to the 1 mV/m service contour, and 2) errors in the presented dimensions of the overall tower structure. Both are corrected here. Those sections of FCC Form 340 which require changes in the response are included.

It should be noted that the Form 340 has been revised since the original application was filed. In some cases, exact equivalences do not exist between the old and the new form. In particular, the sixth paragraph of the Commission's January letter cites a discrepancy in data submitted in Section V-G of the form. The new form has no Section V-G. Rather, those entries have been incorporated into Section V-B of the Form. Accordingly, an amended Section V-G is not enclosed. That equivalent item of Section V-B is enclosed.

With reference to the distances to the 1 mV/m contour, new distances are provided on the enclosed Page 4 of the Section V-B. Additionally, an amended Exhibit E-1 (contour map) is attached.

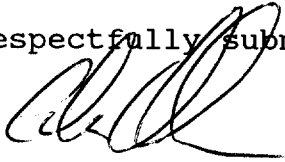
Ms. Donna R. Searcy
March 19, 1990
Page two

With reference to the height of the structure, revised tabular data is presented on the attached Page 2 of Section V-B. Additionally, an amended Exhibit E-4 (Vertical Plan Sketch) is attached. That Exhibit is not drawn to scale.

It is believed that all issues raised by the Commission's Janaury letter are herein resolved.

Should any questions arise with reference to the enclosed information, please contact the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'Glen Clark', written over the word 'submitted'.

Glen Clark
Broadcast Technical Consultant

GC/tdm




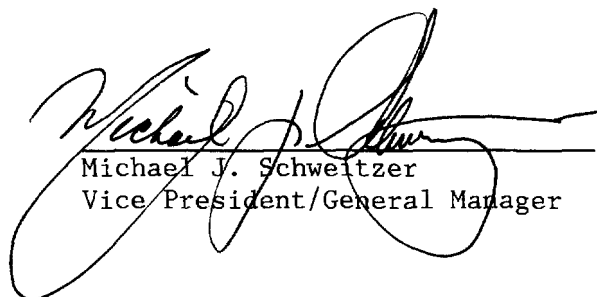
To Whom it may Concern,

As of March 19th, WCPX has had discussions with Mr. James Hoge of Central Florida Educational Foundation, Inc. concerning their license application for a NCE to operate on 88.3 MHz.

We are presently exploring the co-locating this new station on the jointly owned (WCPX & WFTV) tower where the WCPX, Ch 6 antenna and transmitter are located. Although no deal has been finalized, we are conducting meaningful negotiations and anticipate an agreement soon.

Respectfully,


Robert K. Diehl
Chief Engineer


Michael J. Schweitzer
Vice President/General Manager

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION
(Carefully read instructions before filing form) Return only form to FCC

For Commission Use Only

File No.

Section I - GENERAL INFORMATION

1. Name of Applicant Central Florida Educational Foundation Inc.			Send notices and communications to the following person at the address below: Name James Hoge		
Street Address or P.O. Box 2607 S. Woodland Blvd, Suite 101			Street Address or P.O. Box 2607 S. Woodland Blvd, Suite 101		
City DeLand	State FL	ZIP Code 32720	City DeLand	State FL	ZIP Code 32720
Telephone No. (Include Area Code) (904) 736-9397			Telephone No. (Include Area Code) (904) 736-9397		

2. This application is for: ☐ AM ☒ FM ☐ TV

(a) Channel No. or Frequency 202C2	(b) Principal Community	City Union Park	State FL
---------------------------------------	----------------------------	--------------------	-------------

(c) Check one of the following boxes:

☐ Application for NEW station

☐ MAJOR change in licensed facilities; call sign: _____

☐ MINOR change in licensed facilities; call sign: _____

☐ MAJOR modification of construction permit; call sign: _____

File No. of construction permit: _____

☐ MINOR modification of construction permit; call sign: _____

File No. of construction permit: _____

☒ AMENDMENT to pending application; application file number: BPED-881207MA

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application?

☐ Yes ☒ No

If Yes, state:	Call letters	Community of License	
		City	State

SECTION V-8 - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?

☐ Yes ☐ No

If Yes, list old coordinates.

Latitude	0	'	"	Longitude	0	'	"
----------	---	---	---	-----------	---	---	---

5. Has the FAA been notified of the proposed construction?

☐ Yes ☐ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No.

Date _____ Office where filed _____

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

Landing Area	Distance (km)	Bearing (degrees True)
(a) _____	_____	_____
(b) _____	_____	_____

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level;

20 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and

490 meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]

510 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground

173 meters (H)

173 meters (V)

(2) above mean sea level [(aX1) + (bX1)]

193 meters (H)

193 meters (V)

(3) above average terrain

183 meters (H)

183 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.

9. Effective Radiated Power:

(a) ERP in the horizontal plane

_____ kw (H)

_____ kw (V)

(b) Is beam tilt proposed?

☐ Yes ☐ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.

_____ kw (H)

_____ kw (V)

#Polarization

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 4)

17. For an application involving an auxiliary facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.: _____)

18. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*.

Source of terrain data: *(check only one box below)*

☐ Linearly interpolated 30-second database

☐ 7.5 minute topographic map

(Source: _____)

☐ Other *(briefly summarize)*

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0	186	29.0
45	190	29.4
90	190	29.4
135	181	28.7
180	178	28.5
225	177	28.4
270	179	28.6
315	183	28.8

250°

178

28.5

Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico?

☐ Yes ☐ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

Exhibit No.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 6)

- (e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

☐ Yes ☐ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No.

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

☐ Yes ☐ No

If Yes, attach as an Exhibit information required in 1/. (Except for Class D (secondary) proposals.)

Exhibit No.

26. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

☐ Yes ☐ No

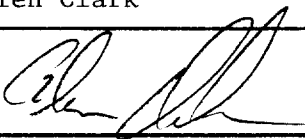
If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.

If No, explain briefly why not.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) Glen Clark	Relationship to Applicant (e.g., Consulting Engineer) Technical Consultant
Signature 	Address (Include ZIP Code) 58 Park Square South, Suite C Marietta, GA 30060
Date 18 MAR 90	Telephone No. (Include Area Code) (404) 499-1392